

if it is performed according to the normal measurement configuration, transmit the obtained measurement report to its current serving cell instead of performing a cell change directly.

53. The apparatus according to claim **52**, wherein the type of the maintained measurement configurations is determined based on a specific identifier and/or any different configurations between the maintained measurement configuration created at the heterogeneous network and the normal measurement configuration of the user equipment assisted and network controlled handover procedure.

54. The apparatus according to claim **49**, wherein the network is a heterogeneous network in which at least one small cell with a relatively smaller coverage is located adjacent to or within at least one of said at least one cell, and the at least one measurement can be performed by the apparatus on received signal when the apparatus moving between said at least one cell and said at least one small cell, moving between the small cells, or moving between the cells.

55. The apparatus according to claim **49**, wherein the maintained at least one measurement configuration is either pre-loaded into the apparatus or received from the network after the apparatus is powered on; and/or if a condition of a measurement event defined in the maintained at least one measurement configuration is met.

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